

FIG. 1

Glu 1 	Pro	Lys	Ser	Cys 5 H	Asp Linge	Lys :	Thr 	His 	Thr 10	Cys	Pro	Pro 	Cys	Pro 15  -	Ala
Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro		
Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val <sup>-</sup>	Thr	Cys	Val	Val
Val			Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val
	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu		Gln
Tyr		Ser	Thr	Tyr 85	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His 95	Gln
Asp	Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	
Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro
Arg	Glu 130	Pro	Gln	17-7	Tyr	mh -	Leu	Pro	Pro	Ser	Arg 140	Glu	Glu	Met	Thr
Lys 145	Asn	Gln	Val	Ser	T.em	Thr	Cve	ī.eu	Val	Tive	G) v	Phe	Tyr	Pro	Ser 160 CH3-
Asp	Ile	Ala	Val	Glu 165	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr
Lys	Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr
		Leu 195		. Val	Asp	Lys	Ser	Arg	Trp	Gln		Gly	Asn		Phe
Ser	Cys 210	Ser	Val	. Met	Hís	Glu	Ala	Leu	His	Asn	His	Tvr	Thr		Lys
Ser	Leu	Ser	Lev	Ser	Pro	Gly	Lys	;							

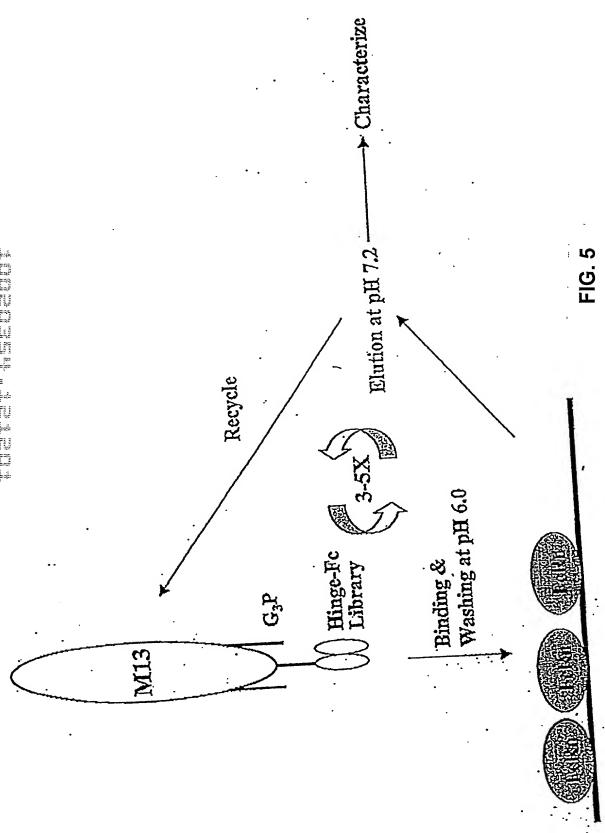
Met Gly Val Pro Arg Pro Gln Pro Trp Ala Leu Gly Leu Leu Phe 1 5 10 15 Leu Leu Pro Gly Ser Leu Gly Ala Glu Ser His Leu Ser Leu Leu Tyr 20 25 30His Leu Thr Ala Val Ser Ser Pro Ala Pro Gly Thr Pro Ala Phe Trp 35 40 45 Val Ser Gly Trp Leu Gly Pro Gln Gln Tyr Leu Ser Tyr Asn Ser Leu 50 55 60 Arg Gly Glu Ala Glu Pro Cys Gly Ala Trp Val Trp Glu Asn Gln Val 65 70 75 80 Ser Trp Tyr Trp Glu Lys Glu Thr Thr Asp Leu Arg Ile Lys Glu Lys Leu Phe Leu Glu Ala Phe Lys Ala Leu Gly Gly Lys Gly Pro Tyr Thr 100 \$105\$Leu Gln Gly Leu Leu Gly Cys Glu Leu Gly Pro Asp Asn Thr Ser Val Pro Thr Ala Lys Phe Ala Leu Asn Gly Glu Glu Phe Met Asn Phe Asp 130 135 140 Leu Lys Gln Gly Thr Trp Gly Gly Asp Trp Pro Glu Ala Leu Ala Ile Ser Gln Arg Trp Gln Gln Gln Asp Lys Ala Ala Asn Lys Glu Leu Thr Phe Leu Leu Phe Ser Cys Pro His Arg Leu Arg Glu His Leu Glu Arg 180 185 190 Gly Arg Gly Asn Leu Glu Trp Lys Glu Pro Pro Ser Met Arg Leu Lys 195 200 205 Ala Arg Pro Ser Ser Pro Gly Phe Ser Val Leu Thr Cys Ser Ala Phe 210 215 220 Ser Phe Tyr Pro Pro Glu Leu Gln Leu Arg Phe Leu Arg Asn Gly Leu 225 230 235 240 Ala Ala Gly Thr Gly Gln Gly Asp Phe Gly Pro Asn Ser Asp Gly Ser 245 250 255 Phe His Ala Ser Ser Ser Leu Thr Val Lys Ser Gly Asp Glu His His 260 265 270 Tyr Cys Cys Ile Val Gln His Ala Gly Leu Ala Gln Pro Leu Arg Val 275 280 285 Glu Leu Glu Ser Pro Ala Lys Ser Ser Val Leu Val Val Gly Ile Val 290 295 300 Ile Gly Val Leu Leu Leu Thr Ala Ala Ala Val Gly Gly Ala Leu Leu 305 310 315 320 Trp Arg Arg Met Arg Ser Gly Leu Pro Ala Pro Trp Ile Ser Leu Arg 325 330 335 Gly Asp Asp Thr Gly Val Leu Leu Pro Thr Pro Gly Glu Ala Gln Asp  $340 \hspace{1cm} 345 \hspace{1cm} 350$ Ala Asp Leu Lys Asp Val Asn Val Ile Pro Ala Thr Ala 355 360 365

FIG. 3A

Met Gly Met Pro Leu Pro Trp Ala Leu Ser Leu Leu Leu Val Leu Leu 1 5 10 15 Pro Gln Thr Trp Gly Ser Glu Thr Arg Pro Pro Leu Met Tyr His Leu 20 25 30Thr Ala Val Ser Asn Pro Ser Thr Gly Leu Pro Ser Phe Trp Ala Thr Gly Trp Leu Gly Pro Gln Gln Tyr Leu Thr Tyr Asn Ser Leu Arg Gln Glu Ala Asp Pro Cys Gly Ala Trp Val Trp Glu Asn Gln Val Ser Trp 65 70 75 80 Tyr Trp Glu Lys Glu Thr Thr Asp Leu Lys Ser Lys Glu Gln Leu Phe
85 90 95 Leu Glu Ala Leu Lys Thr Leu Glu Lys Ile Leu Asn Gly Thr Tyr Thr Leu Gln Gly Leu Leu Gly Cys Glu Leu Ala Ser Asp Asn Ser Ser Val 120 Pro Thr Ala Val Phe Ala Leu Asn Gly Glu Glu Phe Met Lys Phe Asn Pro Arg Ile Gly Asn Trp Thr Gly Glu Trp Pro Glu Thr Glu Ile Val Ala Asn Leu Trp Met Lys Gln Pro Asp Ala Ala Arg Lys Glu Ser Glu 165 170 175Phe Leu Leu Asn Ser Cys Pro Glu Arg Leu Leu Gly His Leu Glu Arg 180 185 190 Gly Arg Arg Asn Leu Glu Trp Lys Glu Pro Pro Ser Met Arg Leu Lys 195 200 205Ala Arg Pro Gly Asn Ser Gly Ser Ser Val Leu Thr Cys Ala Ala Phe 210 215 220 Ser Phe Tyr Pro Pro Glu Leu Lys Phe Arg Phe Leu Arg Asn Gly Leu Ala Ser Gly Ser Gly Asn Cys Ser Thr Gly Pro Asn Gly Asp Gly Ser 245 250 255 Phe His Ala Trp Ser Leu Leu Glu Val Lys Arg Gly Asp Glu His His Tyr Gln Cys Gln Val Glu His Glu Gly Leu Ala Gln Pro Leu Thr Val Asp Leu Asp Ser Ser Ala Arg Ser Ser Val Pro Val Val Gly Ile Val Leu Gly Leu Leu Leu Val Val Val Ala Ile Ala Gly Gly Val Leu Leu 305 310 315 320 Trp Gly Arg Met Arg Ser Gly Leu Pro Ala Pro Trp Leu Ser Leu Ser Gly Asp Asp Ser Gly Asp Leu Leu Pro Gly Gly Asn Leu Pro Pro Glu 345 Ala Glu Pro Gln Gly Ala Asn Ala Phe Pro Ala Thr Ser

FIG. 3B

31u L 	Pro	Lys	Ser	Cys 5 1	Asp Linge	Lys	Thr	His	Thr 10	Cys	Pro	Pro	Cys	Pro : 15  -	Ala 
Pro		Leu	Leu 20	Gly	Gly	Pro	Ser	Val 25	Phe	Leu		Pro		Lys	Pro
Lys 	Asp	Thr 35								•	Val	Thr 45	Cys	Val	Val
Val		Val		His	Glu	Asp		Glu	Val	Lys	Phe 60	Asn	Trp	Tyr CH2	Val
Asp 65					His 70	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln 80
Tyr	Asn	Ser	Thr	Tyr 85	Arg	Val	Val	Ser	Val 90	Leu	Thr	Val	Leu	His 95	
Asp	Trp	Leu	Asn		Lvs	Glu	Tyr	Lys	Cys	Lys	Val	Ser		Lys	Ala
		Ala	Pro	Ile	Glu	Lys	Thr	Ile						Gln	
Arg	Glu 130	Dwo	01 m	Val	17000	72 h	T 033	D~0	Pro	Ser	Arg 140	Glu	Glu	Met	Thr
Lys 145	Asn	Gln	17=1	Sar	T.en	ሞክተ	Cve	T.611	Val	Lys 155	Gly	Phe	Tyr	Pro	Ser 160 CH3-
Asp	Ile	Ala	Val	Glu 165	Trp	Glu	Ser	Asn	<u>Gly</u> 170	Gln	Pro	Glu	Asn	Asn 175	Tyr
				Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	
Ser					Asp	Lys	; Ser	Arc	Tr	Glr	. Glr	G13	/ Asn	Val	Phe
Ser	Cys	Ser	· Val	Met	His	Gl: 215	ı Ala	Let	ı His	Ası	220	3 <b>Ty</b> 2	c Thr	Gln	Lys
Ser	Leu	ı Ser	Leu	Ser	Pro	Gly	, Lys	;							



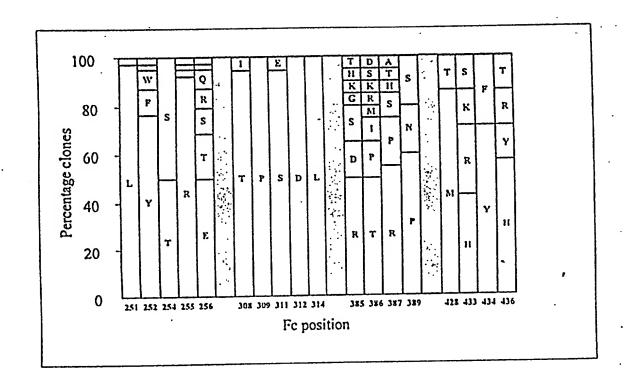
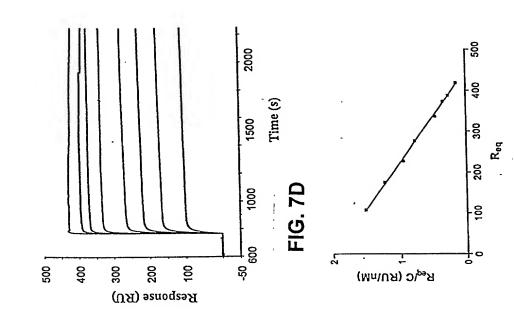
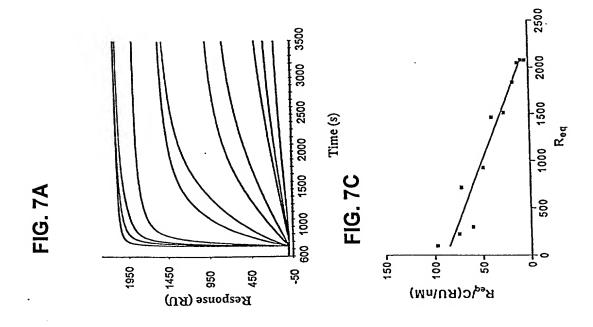


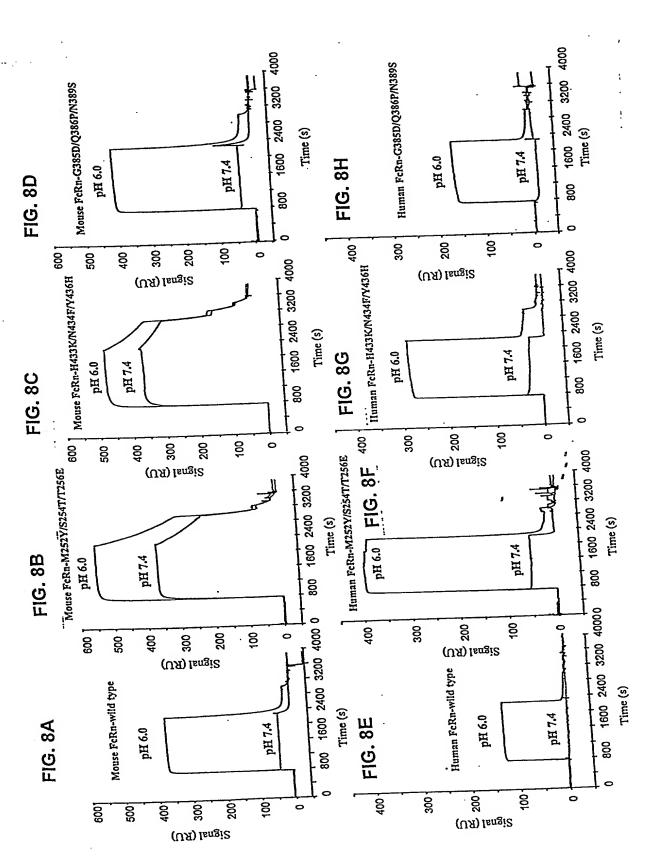
FIG. 6

FIG. 7B









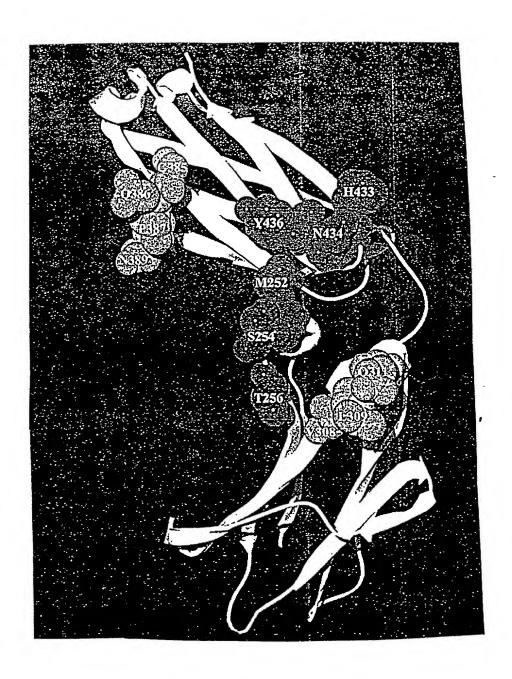


FIG. 9

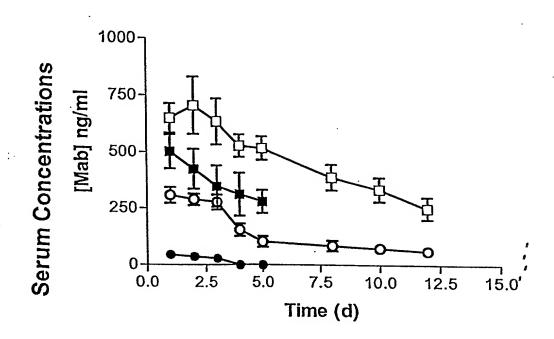


FIG. 10